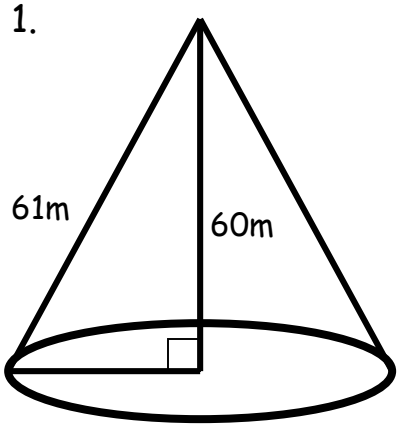
Geometry Name: _____

Unit 11 Review Packet Date: _____

Calculate the volume, lateral and total area of each figure. Be sure to use the correct formulas!

1.



h: _____

l: _____

r: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

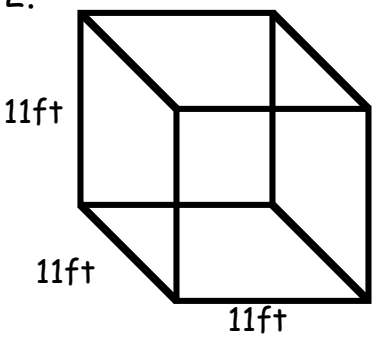
SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

2.



p: _____

B: _____

h: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

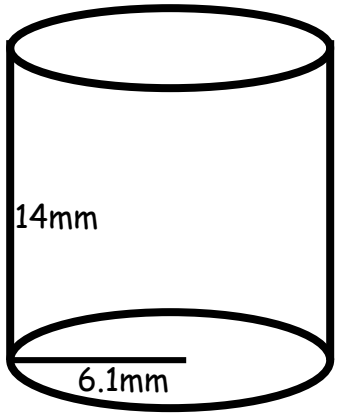
SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

3.



h: _____

r: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

SPHERE

Lateral Area: _____

Surface Area: _____

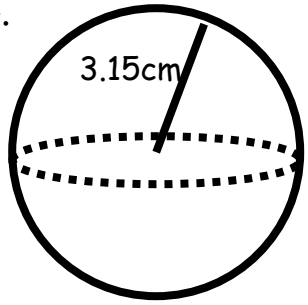
Volume: _____

Geometry Name: _____

Unit 11 Review Packet Date: _____

Calculate the volume, lateral and total area of each figure. Be sure to use the correct formulas!

4.



r: _____

CIRCLE THE SOLID

PRISM PYRAMID

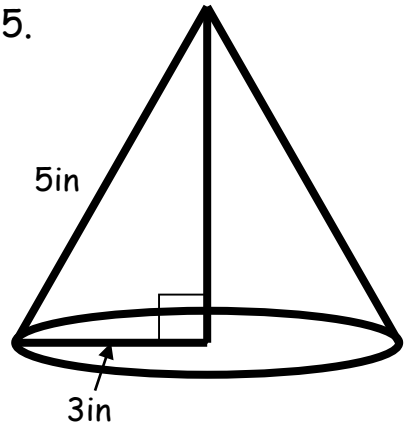
CYLINDER CONE

SPHERE

Surface Area: _____

Volume: _____

5.



h: _____

l: _____

r: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

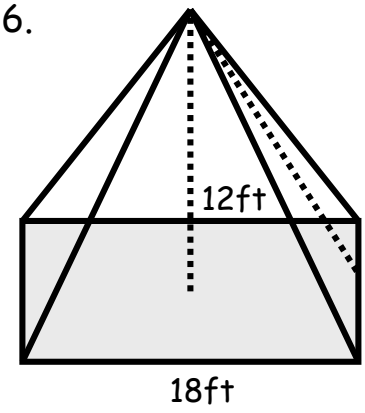
SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

6.



h: _____

l: _____

r: _____

p: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

Geometry

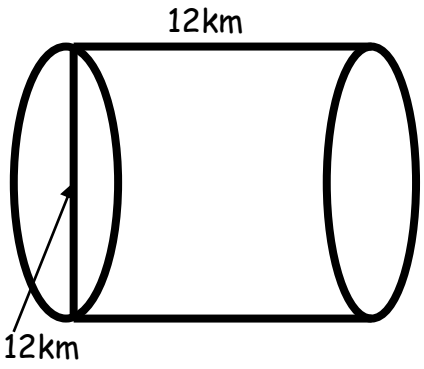
Unit 11 Review Packet

Name: _____

Date: _____

Calculate the volume, lateral and total area of each figure. Be sure to use the correct formulas!

7.



h: _____

r: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

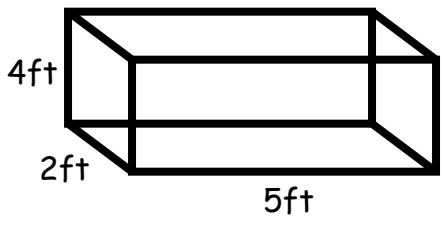
SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

8.



p: _____

B: _____

h: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

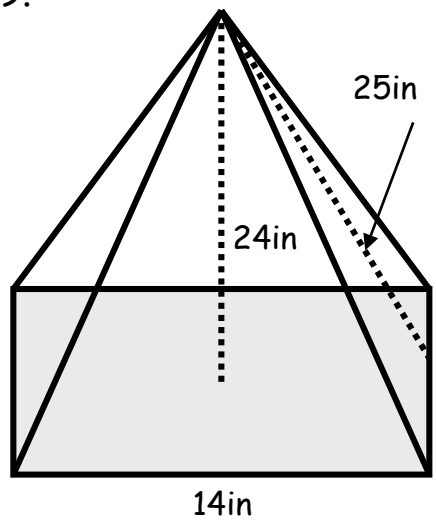
SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

9.



h: _____

l: _____

r: _____

p: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

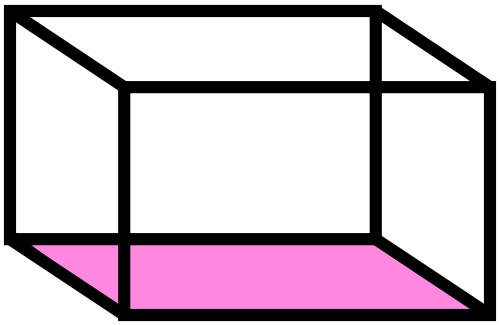
Geometry

Unit 11 Review Game

Name: _____

Date: _____

Problem 1 –



p: _____

B: _____

h: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

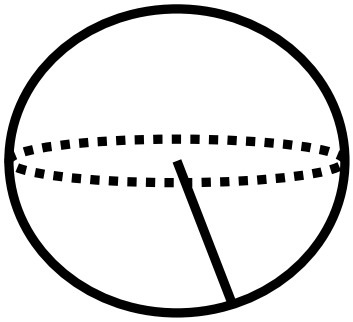
SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

Problem 2 –



r: _____

CIRCLE THE SOLID

PRISM PYRAMID

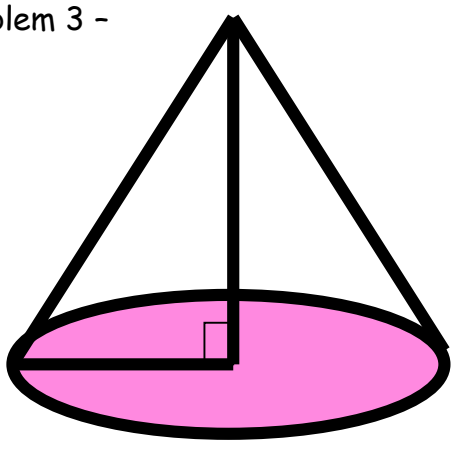
CYLINDER CONE

SPHERE

Surface Area: _____

Volume: _____

Problem 3 –



h: _____

l: _____

r: _____

B: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

SPHERE

Lateral Area: _____

Surface Area: _____

Volume: _____

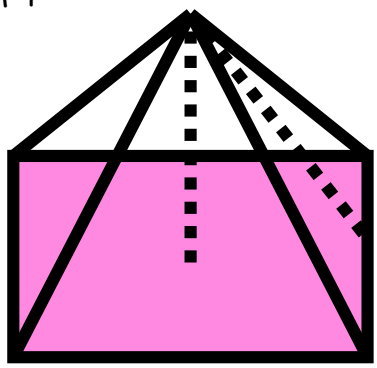
Geometry

Unit 11 Review Game

Name: _____

Date: _____

Problem 4 –



h: _____

l: _____

r: _____

p: _____

B: _____

Lateral Area: _____

Surface Area: _____

Volume: _____

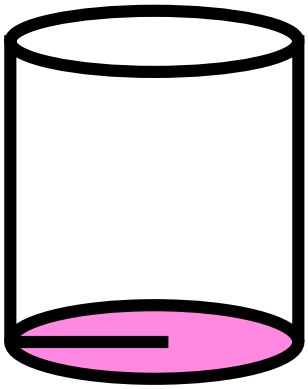
CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

SPHERE

Problem 5 –



h: _____

r: _____

B: _____

Lateral Area: _____

Surface Area: _____

Volume: _____

CIRCLE THE SOLID

PRISM PYRAMID

CYLINDER CONE

SPHERE

Directions: Complete each word problem. Label answers. Complete on back.

1. The radius of the Earth is approximately 6380km. Assume that the Earth is a perfect sphere.
   a) Calculate the surface area and volume.
   b) If approximately 70% of the Earth's surface is covered by water, how many square kilometers of water cover the planet? (HINT: Use one of the values you found in part a)
2. A solid metal sphere with a radius of 8 cm is melted down and recast as a solid cone with a radius of 8cm. Find the height of the cone.
3. A local ice cream shop has a "to-go" service for it's customers. A small size ice cream in a square pyramid container and a large size ice cream comes in a prism shaped container.
   a) What is the volume of the small container? What is the volume of the large container?
   b) How many small containers do you have to buy to equal the amount of ice cream in a large container?
   c) Which container gives you more ice cream for your money? Small: $2.75 Large: $6.25